

**Abstract:**

The invention relates to a method for applying paints or varnishes with the aid of an application device in order to apply a color design on surfaces of buildings or public or civil engineering works in accordance with a previously executed implementation of a digital image model in a previously recorded digital surface object that represents the surface of the object. According to the invention, the application device moves on the surface of the object while contacting the surface thereof, the position of the application device is continuously measured or calculated using motion sensors and paint is applied in accordance with said implementation depending on the position thus determined. Application of paint by the application device is automatically stopped if the position of the application device with respect to a predefined position error acceptance threshold cannot be determined in a sufficiently accurate manner or if the corresponding paint or varnish has been fully applied in the position of the paint applying elements.